

# INTERNATIONAL SEARCH REPORT

Intern. of Application No  
PCT/GB 03/03827

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F01N3/08 F01N3/20 F01N3/023 F01N3/035

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 008 379 A (INST FRANCAIS DU PETROL) 14 June 2000 (2000-06-14)	1-3, 11, 24-26, 28-31, 34, 39, 42
Y	paragraph '0053! - paragraph '0062!; figures 1-3	4-6, 16-19
Y	US 6 415 602 B1 (GRIMSTON KARL RICHARD ET AL) 9 July 2002 (2002-07-09) column 27, line 45 -column 28, line 9; figures	4, 5
Y	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 04, 30 April 1999 (1999-04-30) & JP 11 013456 A (TOYOTA MOTOR CORP), 19 January 1999 (1999-01-19) abstract	6
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

16 December 2003

Date of mailing of the international search report

22/12/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	BUNTING A: "SPRINGING THE TRAP" AUTOMOTIVE ENGINEER, MECHANICAL ENGINEERING PUBL.LTD. BURY ST.EDMUNDS, GB, vol. 25, no. 5, May 2000 (2000-05), pages 73-74, XP000936087 ISSN: 0307-6490 the whole document	16,17
Y	WO 01 04466 A (CHANDER GUY RICHARD ;JOHNSON MATTHEY PLC (GB); WARREN JAMES PATRIC) 18 January 2001 (2001-01-18) abstract; figures	16,18
Y	DE 199 21 974 A (VOLKSWAGENWERK AG) 16 November 2000 (2000-11-16) column 3, line 8 - line 25; figure 4	16,19
A	US 2002/073692 A1 (KATASHIBA HIDEAKI ET AL) 20 June 2002 (2002-06-20) paragraph '0072! - paragraph '0106!; figures	1,30
A	WO 00 74823 A (JOHNSON MATTHEY PLC ;BRISLEY ROBERT JAMES (GB); TWIGG MARTYN VINCE) 14 December 2000 (2000-12-14) cited in the application	
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International Application No  
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